

FIG. 1

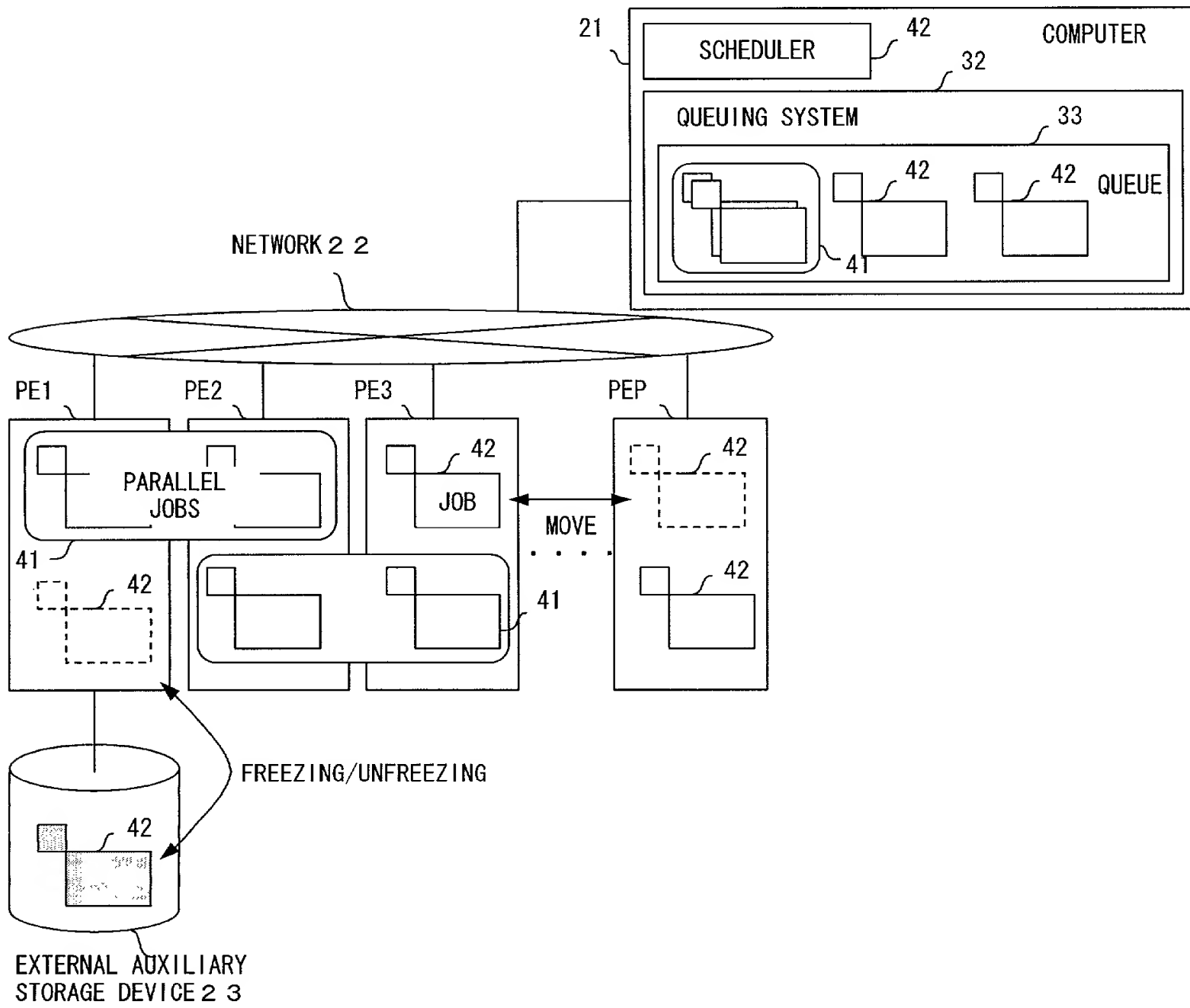
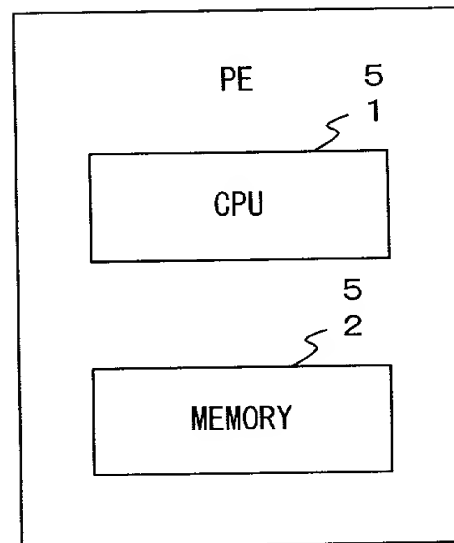


FIG. 2



F I G. 3

FIG. 4

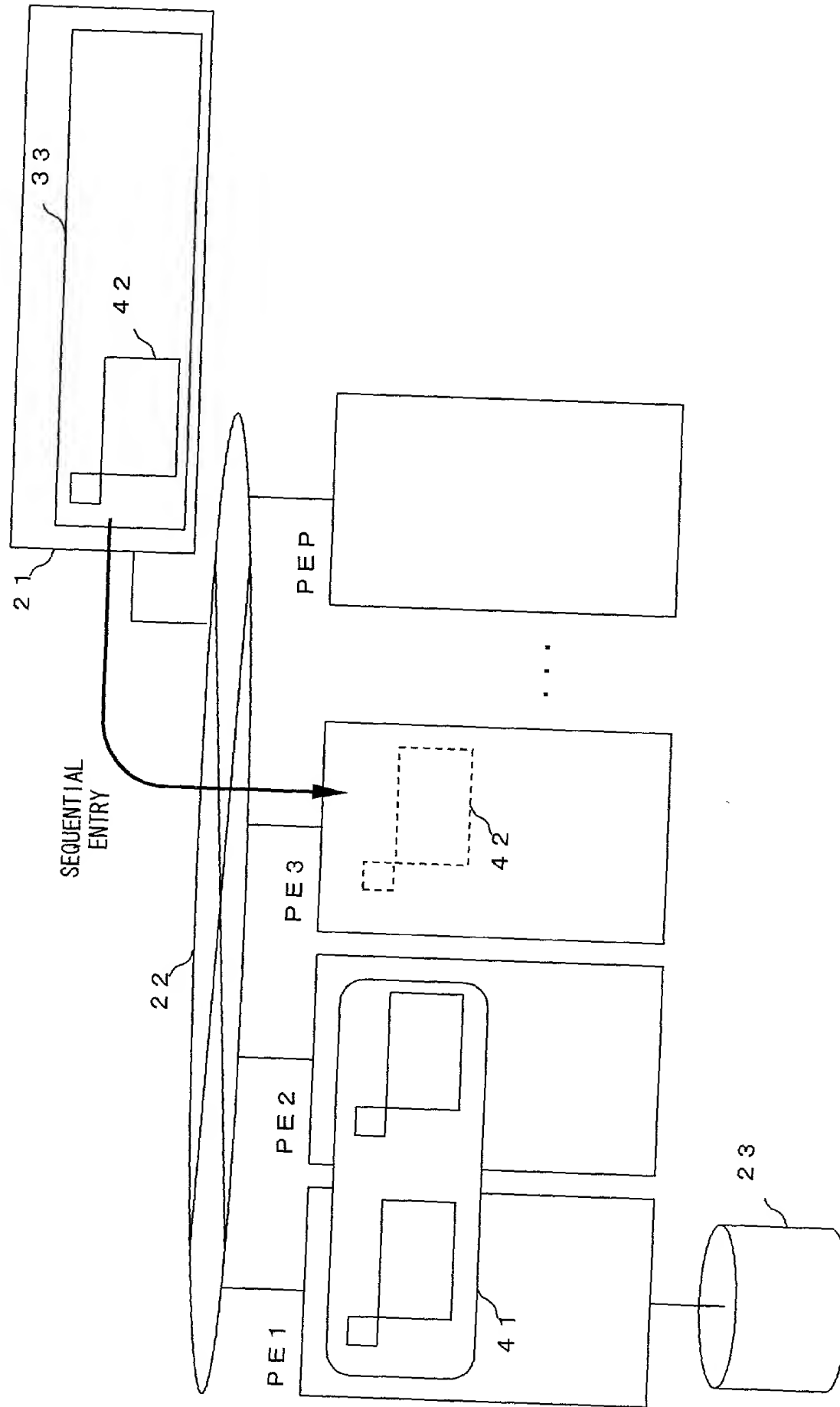


FIG. 4

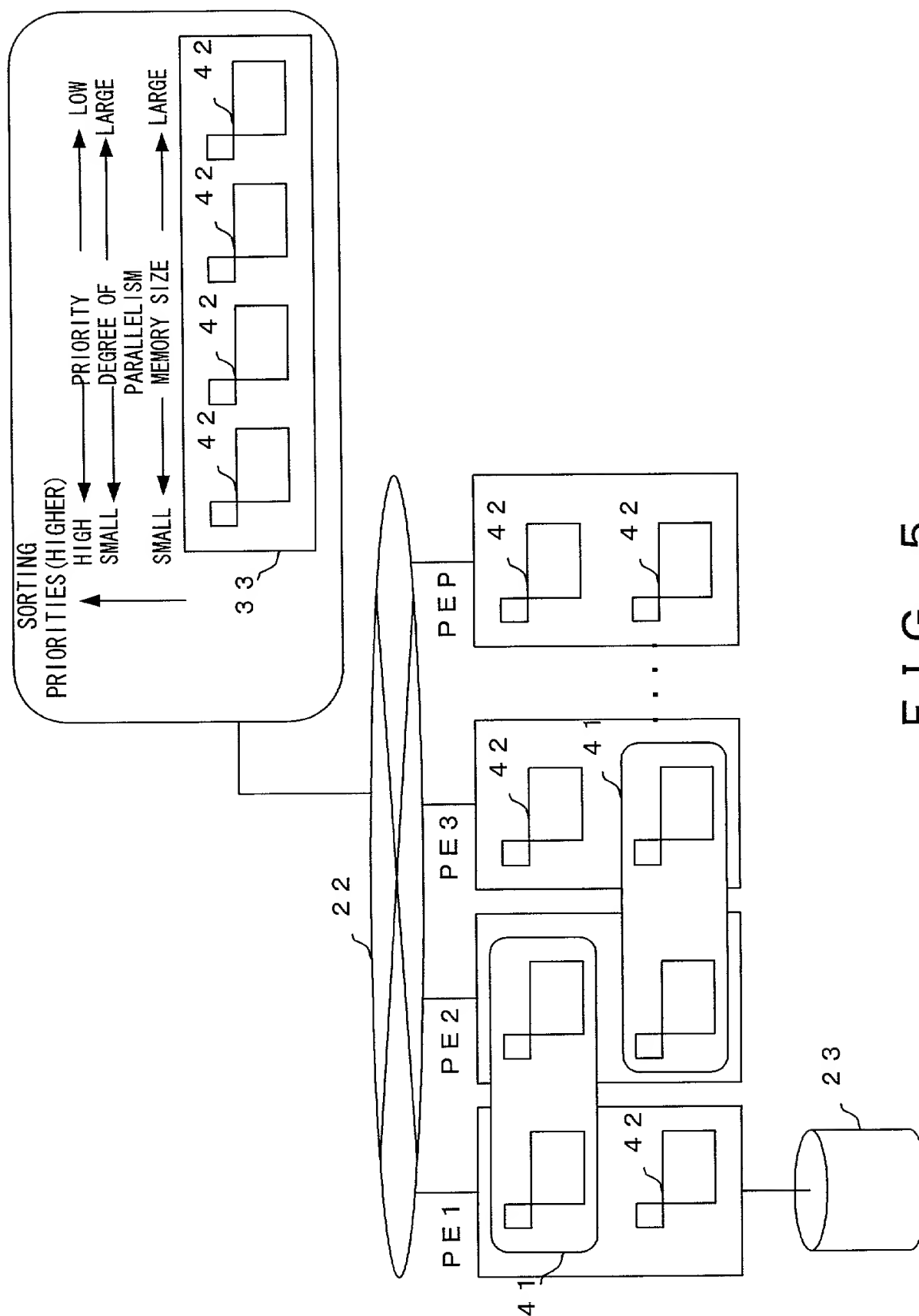


FIG. 5

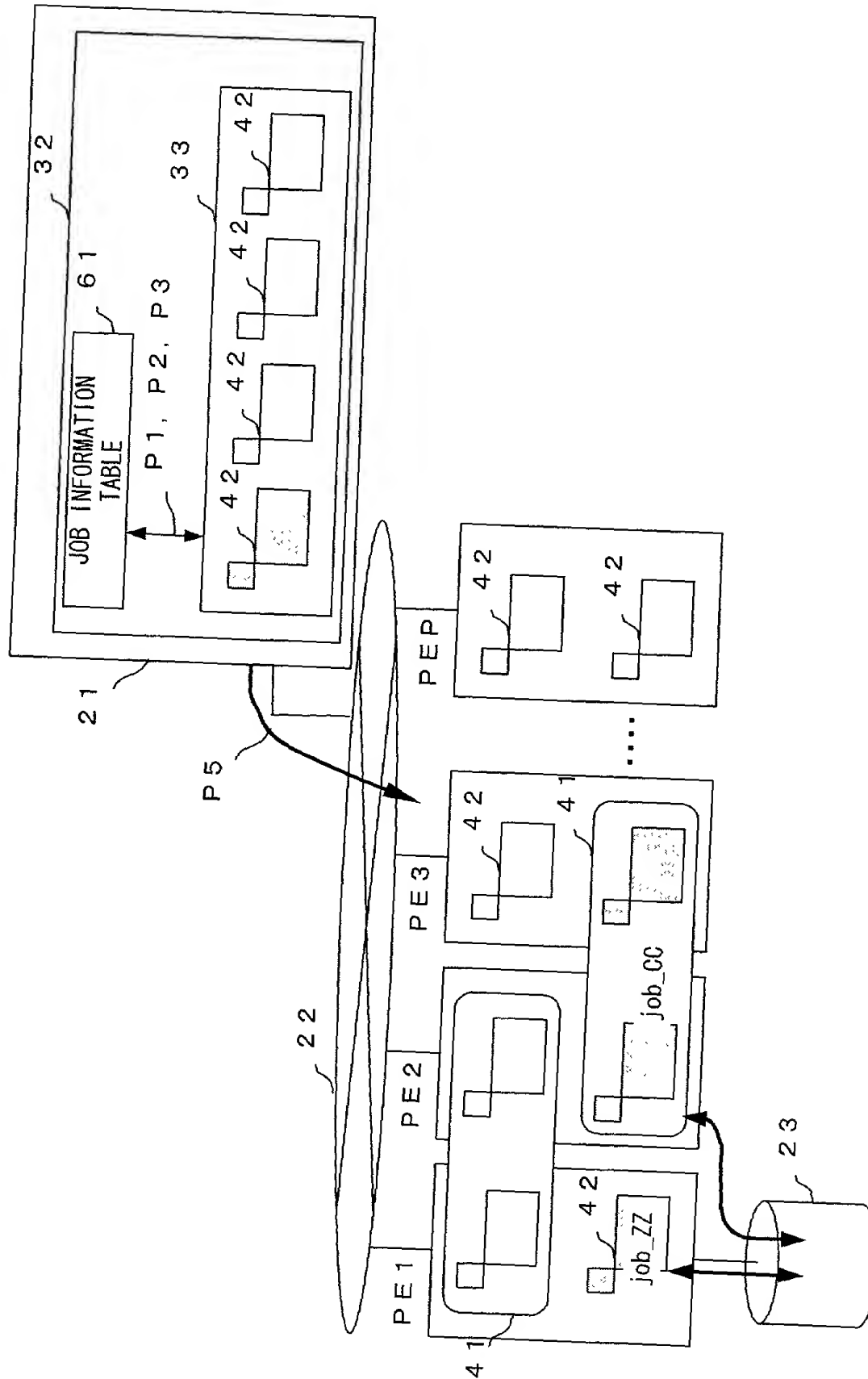


FIG. 6

JOB NAME	JOB ID	PRIORITY	DEGREE OF PARALLELISM	MEMORY SIZE	JOB ENTRY TIME	IDLE TIME
j o b _ X X	105	1	6	100	990802083000	0
j o b _ A A	110	1	8	100	990802090000	0
j o b _ B B	107	1	6	50	990802084500	0
j o b _ Y Y	99	2	8	100	990802080000	0
. . .						
j o b _ Z Z	100	10	1	50	990802081000	5
j o b _ C C	123	10	2	75	990802081500	10

FIG. 7

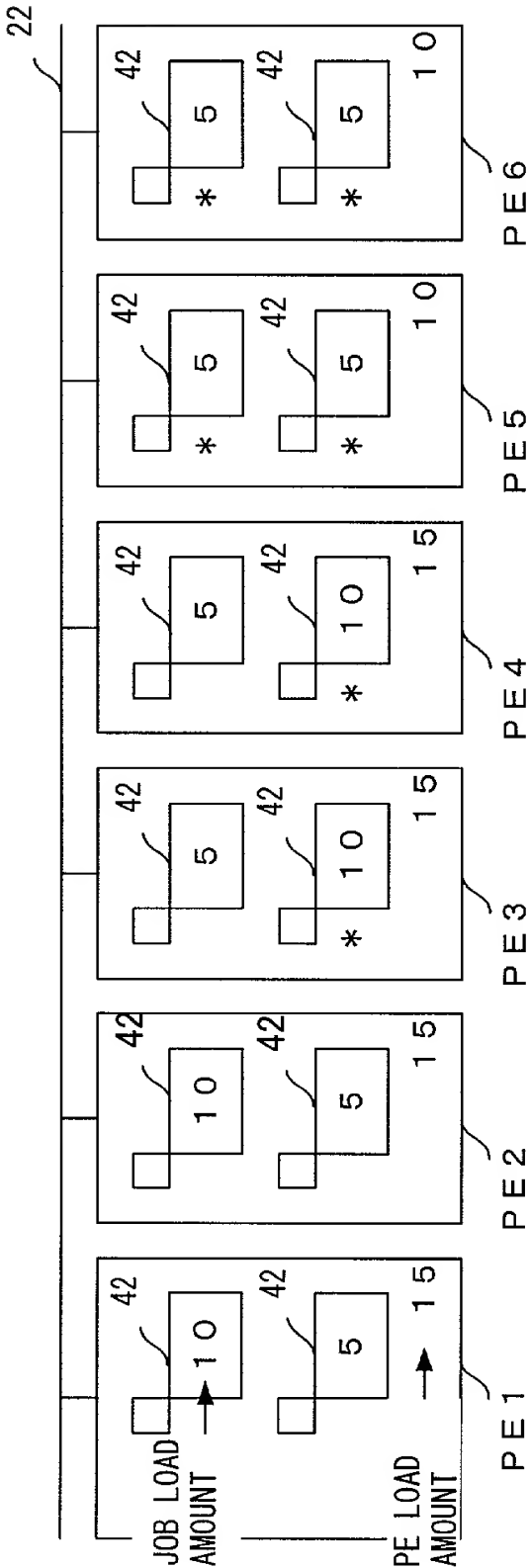


FIG. 8

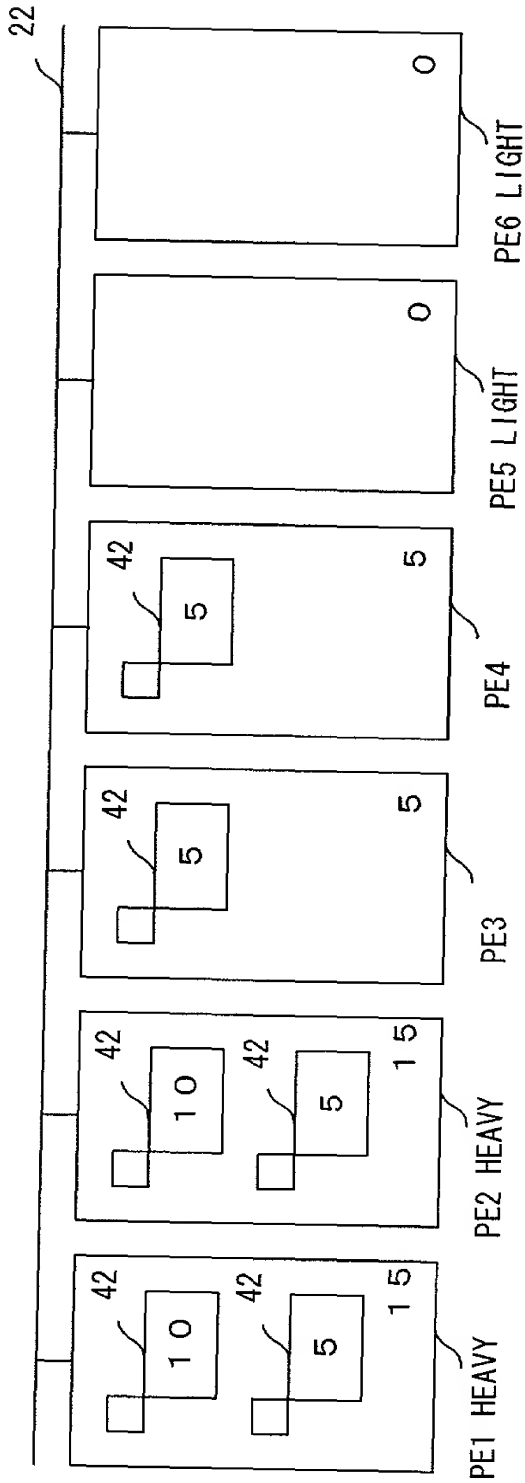


FIG. 9

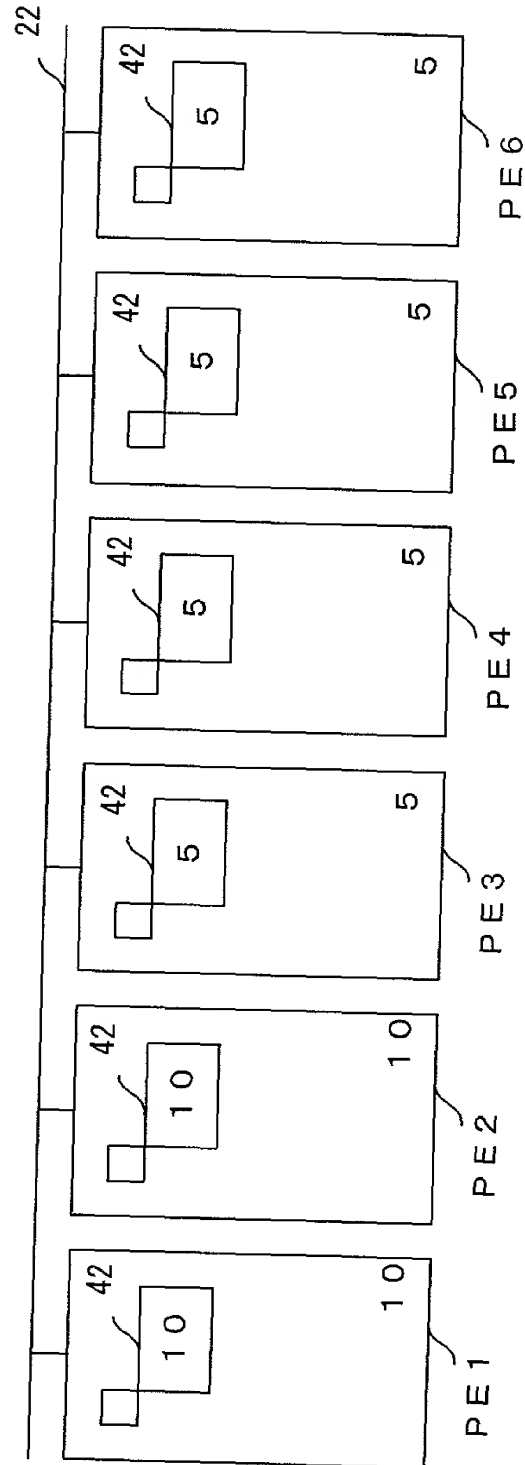


FIG. 10

FIG. 10

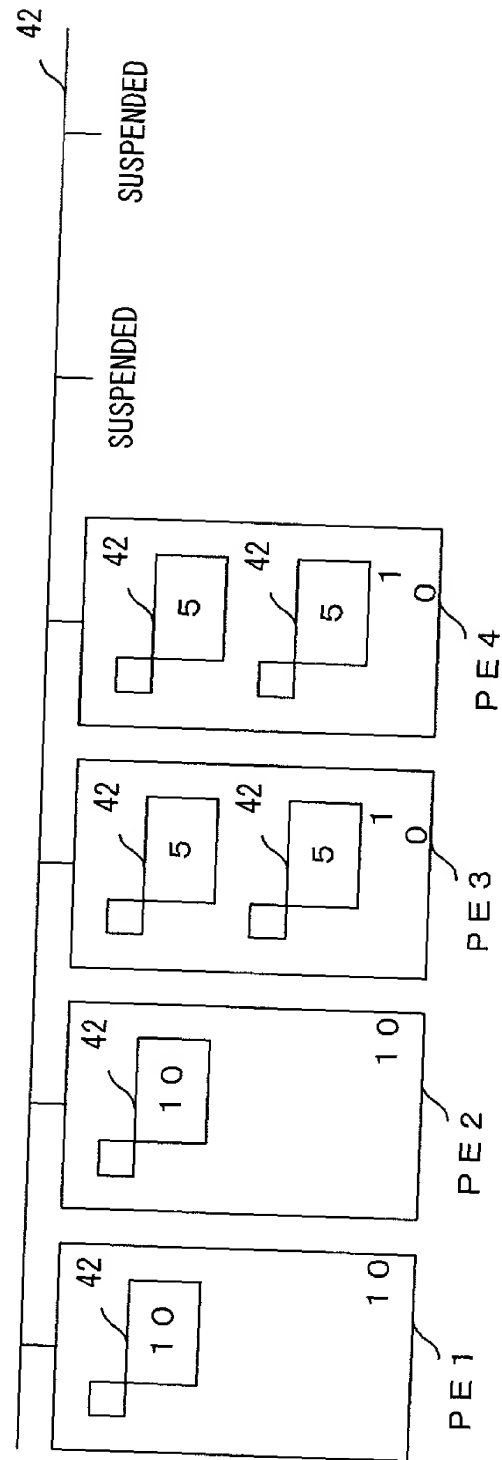


FIG. 11

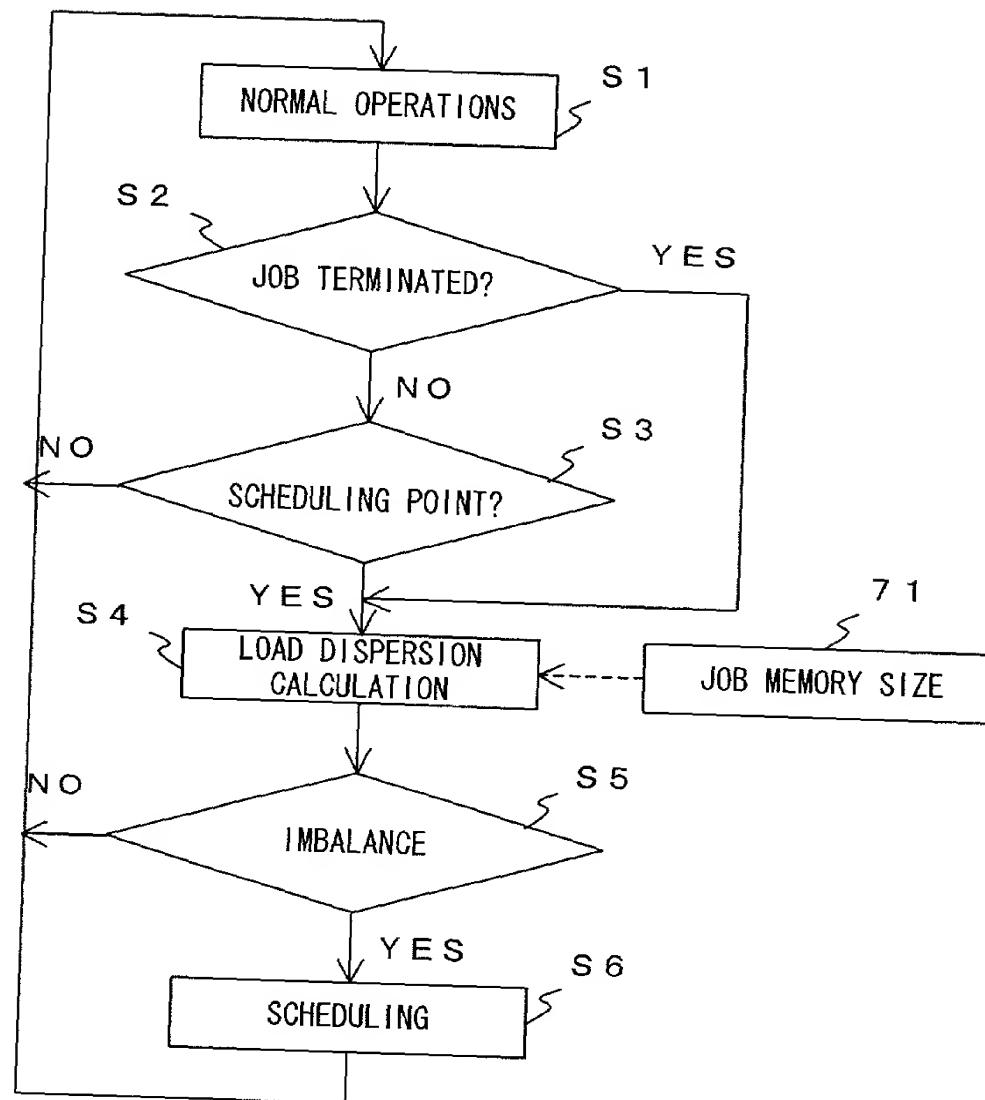


FIG. 12

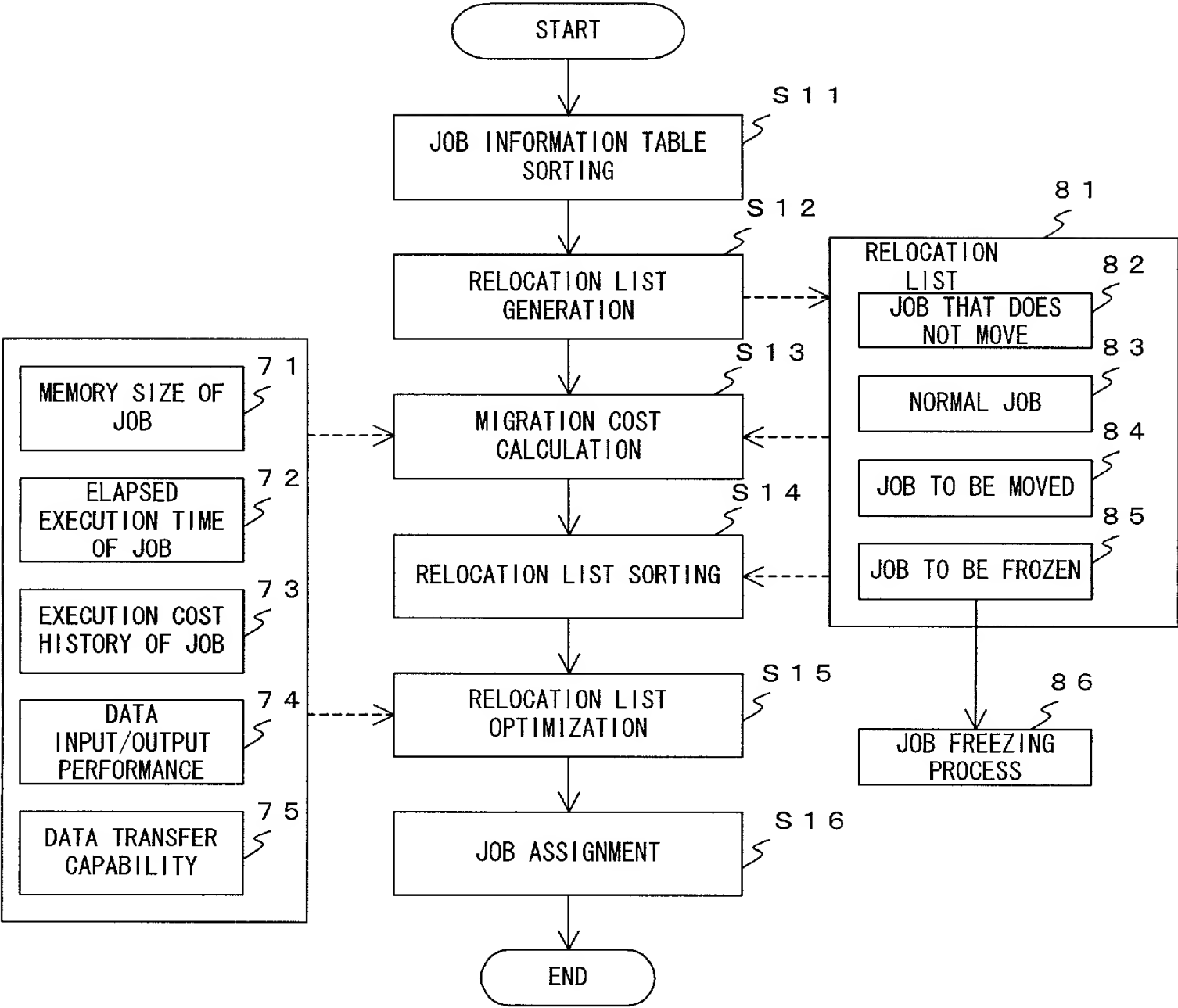


FIG. 13

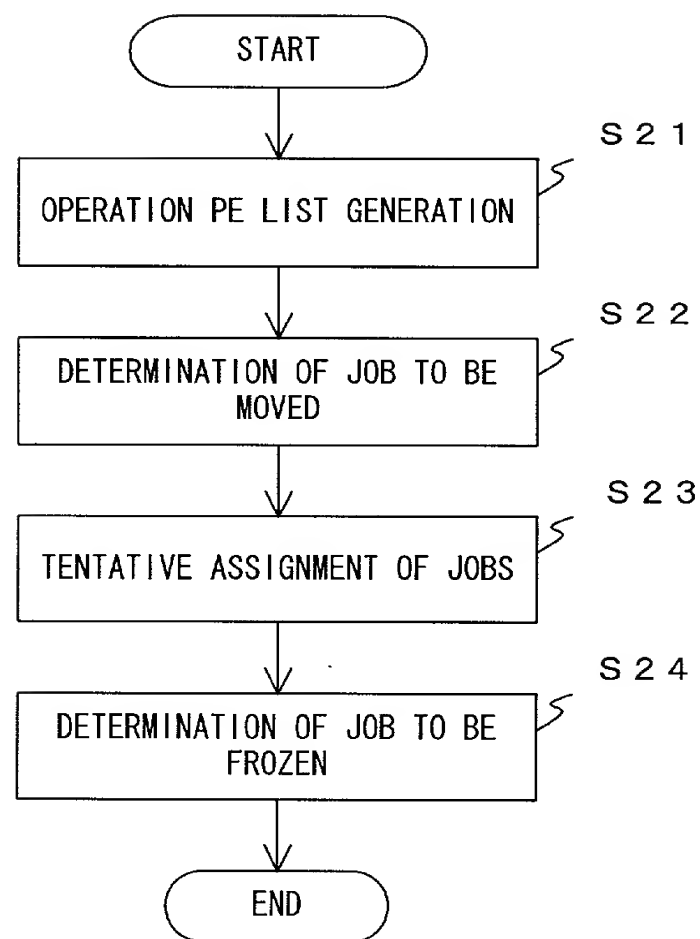


FIG. 14

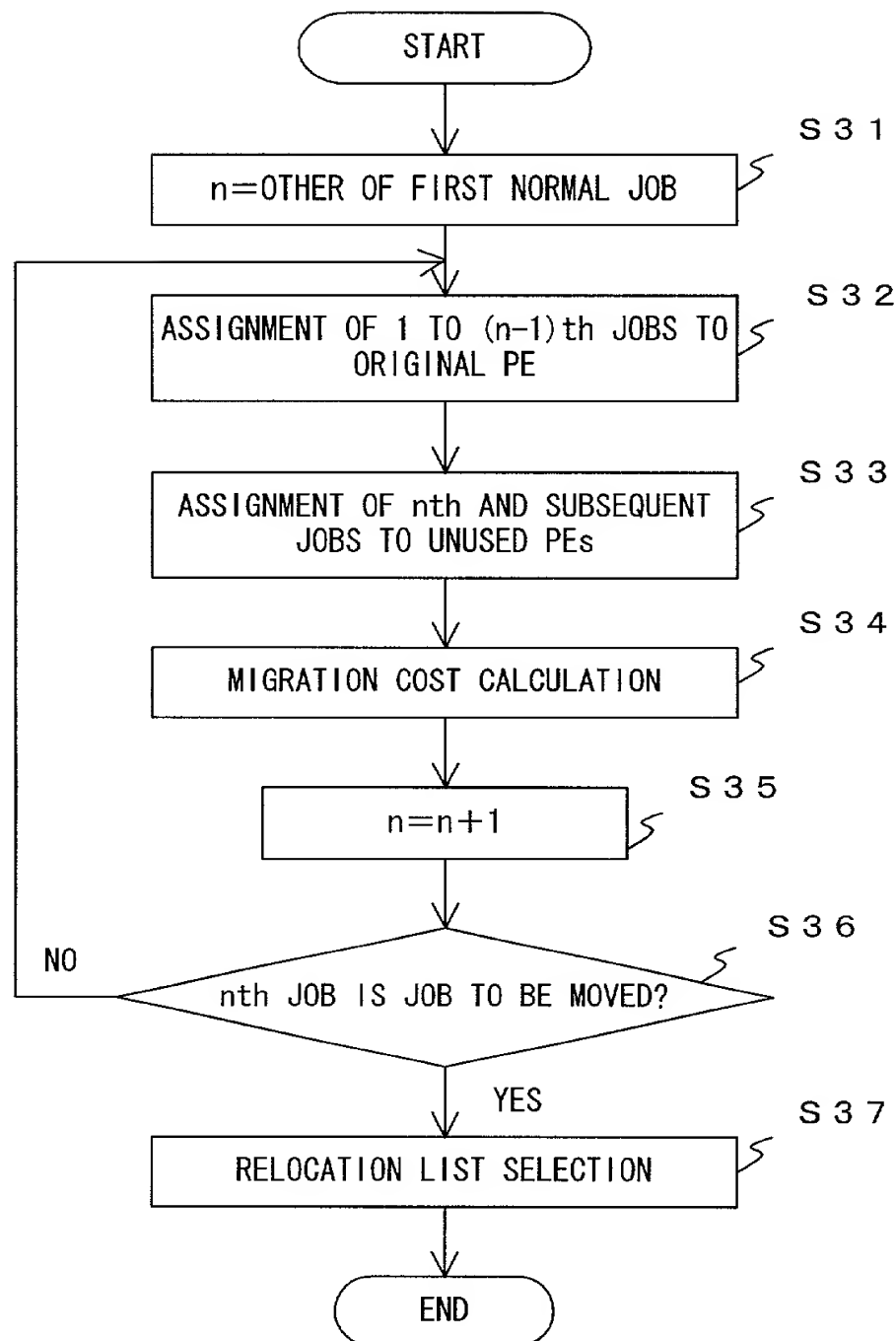


FIG. 15

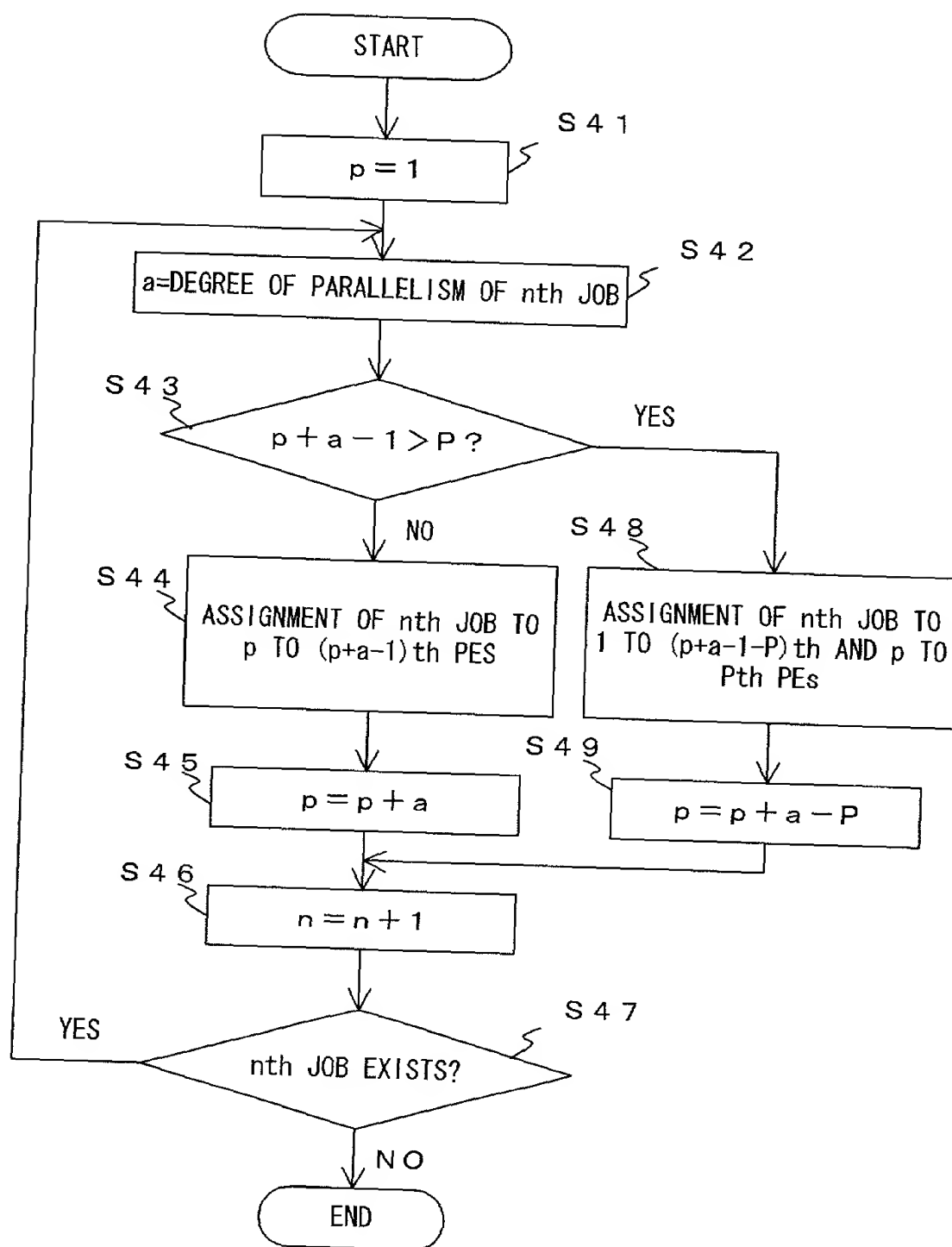


FIG. 16

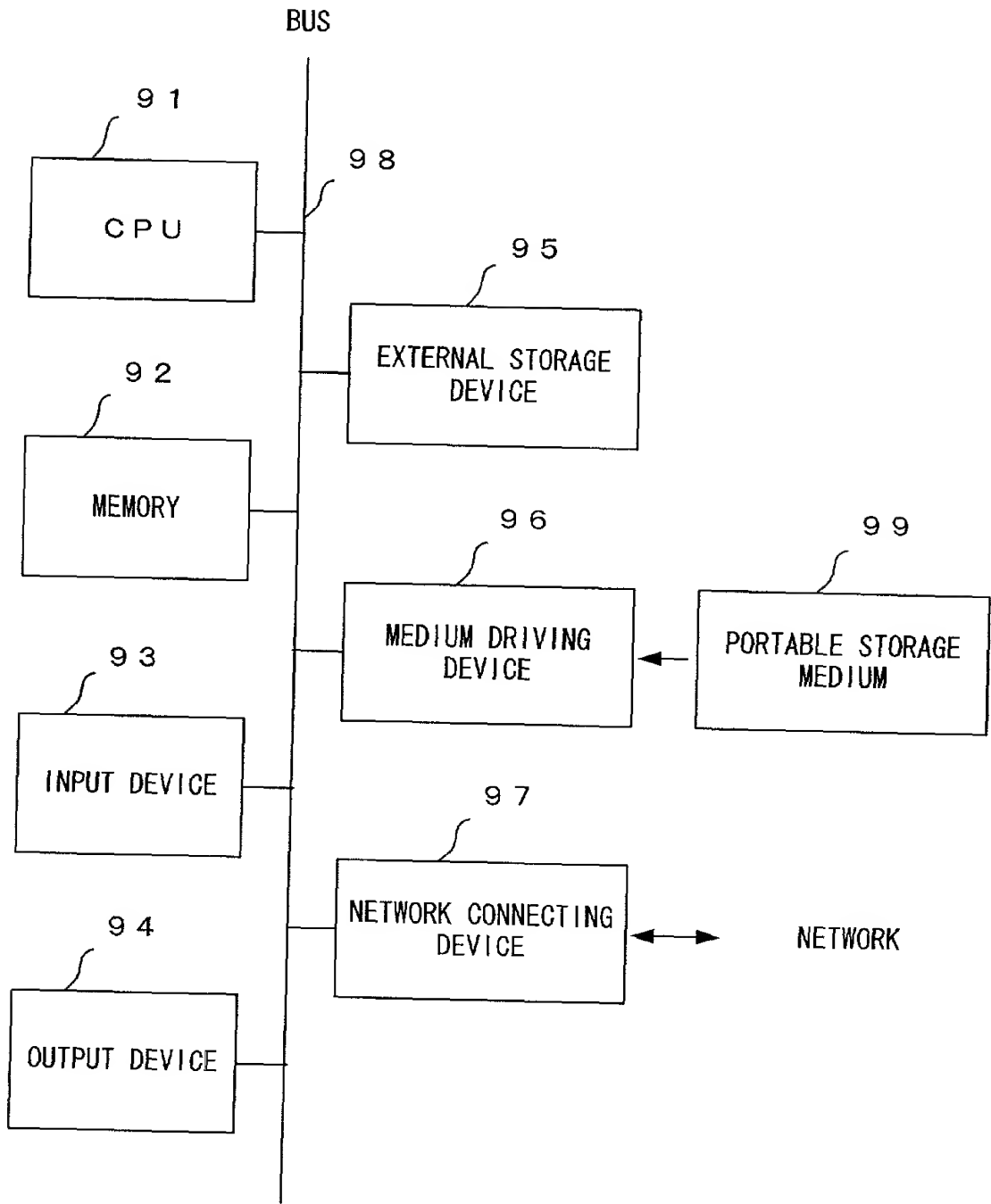


FIG. 17

FIG. 17

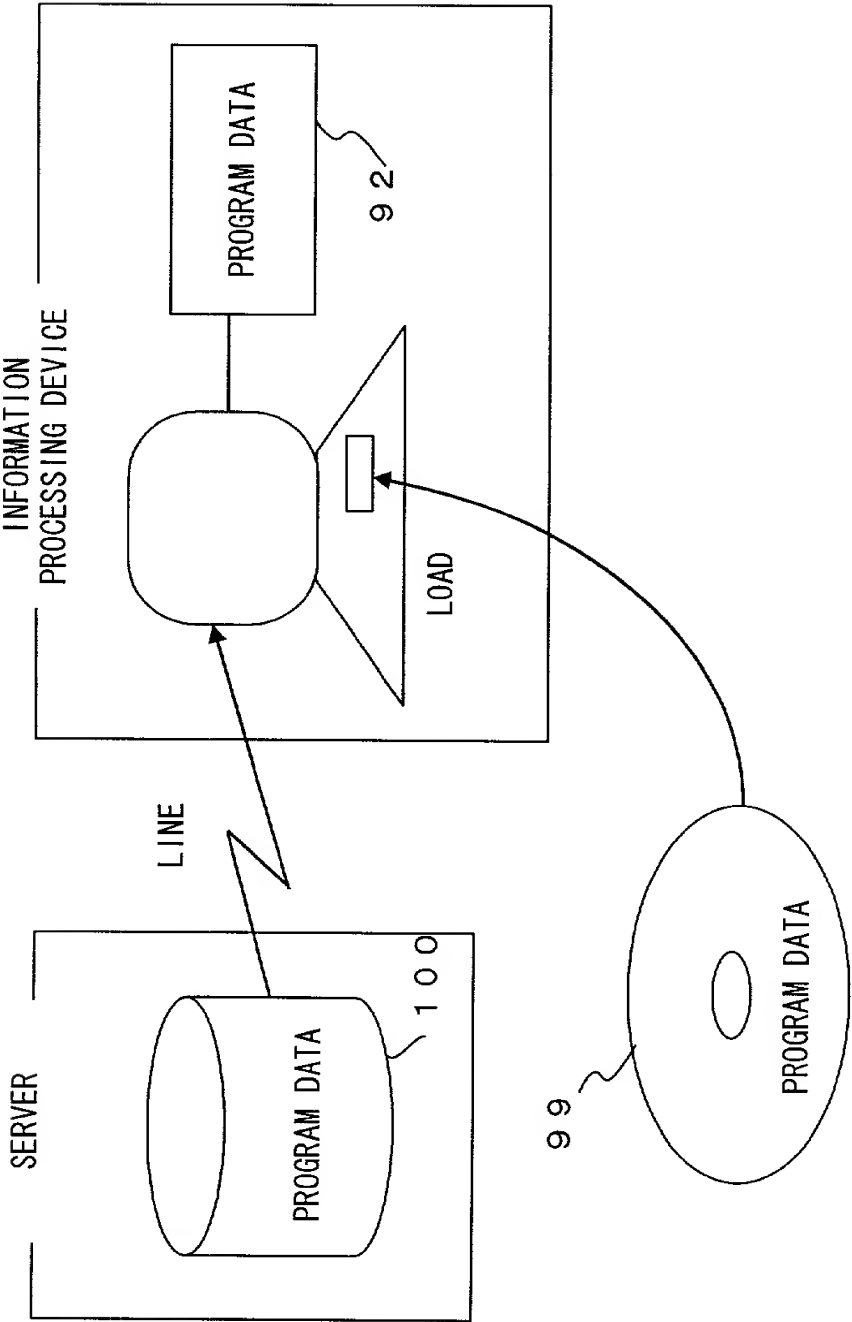


FIG. 18

	SEQUENTIAL EXECUTION	QUEUE SCHEDULING	HIERARCHICAL SCHEDULING		
			$\delta O=25$	$\delta O=50$	$\delta O=75$
TOTAL EXECUTION TIME [s e c]	8.56×10^6	6.22×10^6	5.48×10^6	5.62×10^6	5.71×10^6
PERFORMANCE RATIO (SEQUENCE = 1)	1	0.72	0.64	0.65	0.66
PERCENTAGE OF MEMORY USE[%]	23	34	52	49	48

FIG. 19

	SEQUENTIAL EXECUTION	QUEUE SCHEDULING	HIERARCHICAL SCHEDULING		
			$\delta 0=25$	$\delta 0=50$	$\delta 0=75$
TOTAL EXECUTION TIME [s e c]	6.12×10^6	5.62×10^6	4.89×10^6	4.10×10^6	5.01×10^6
PERFORMANCE RATIO (SEQUENTIAL = 1)	1	0.91	0.80	0.67	0.82
PERCENTAGE OF MEMORY USE [%]	25	36	55	57	52

FIG. 20

	SEQUENTIAL EXECUTION	QUEUE SCHEDULING	HIERARCHICAL SCHEDULING		
			$\delta O=25$	$\delta O=50$	$\delta O=75$
TOTAL EXECUTION TIME [sec]	5.68×10^6	5.49×10^6	5.12×10^6	5.03×10^6	4.78×10^6
PERFORMANCE RATIO (SEQUENTIAL = 1)	1	0.97	0.90	0.88	0.84
PERCENTAGE OF MEMORY USE [%]	21	33	48	45	50

FIG. 21